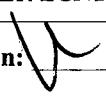


Work Order ID 118391

August-01-14 1:28:07 PM

118391

Page 1

Item ID:	647.1301	Accept	*N900040100*	Setup	Start	*NS1*
Revision ID:					Stop	*NS2*
Item Name:	EC145 Cable Cutters					
Start Date:	8/01/14	Start Qty:	1.00	*1*	Cust Item ID:	
Required Date:	8/01/14	Req'd Qty:	1.00	*1*	Customer:	
Reference:	REWORK PER ECN14-604					
Approvals:	Process Plan: 	Date:	Tooling:	Date:	Run	Start *NR1*
	QC:	Date:	SPC (Y/N):	Date:	Stop	*NR2*

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
--------------------------------	--------------------------	----------------------	---------	--------	--------------	---------------	---------------	------------------	----------------

Draw Nbr	Revision Nbr
647.1300	C (ECN2)

100	Document Control	0.00							
100	DOCUMENT CONTROL								
DC	Memo	0.00							
Doc.Control -USB or Paperwork	Photocopy bluefile & type labels per PPP 647:1301								

DAS
28
9-89

JUN 26 2017

110	Pick Kit	0.00							
110									
Packaging	Memo	0.00							

Packaging	PULL FROM STOCK:								
	1 X 647.1301 B104841								
	REWORK PER ECN14-604								
	ADD TO EACH KIT:								
	8 X 647.0112 B								

130382 x 7
146968 x 1

DAS
27
9-89

DAS
27
9-89

DAS
27
9-89

MAR 23 2016

Work Order ID 118391

August-01-14 1:28:07 PM

118391

Page 2

Item ID: 647.1301 Accept ***N900040100*** Setup Start ***NS1***
Revision ID: Stop ***NS2***
Item Name: EC145 Cable Cutters
Start Date: 8/01/14 Start Qty: 1.00 ***1*** Cust Item ID:
Required Date: 8/01/14 Req'd Qty: 1.00 ***1*** Customer:
Reference: REWORK PER ECN14-604

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
120	QC4- 100% Inspect kits for completeness	0.00					DAS 28		JUN 26 2017
120							9-89		
QC	Memo	0.00							
Quality Control									

130	Packaging	0.00					DAS 28		JUN 26 2017
130							9-89		
Packaging	Memo	0.00							
Packaging	REPACKAGE PER PPP USING NEW B/N								
	Identify and pack for shipping as per PPP 647.1301								
	Location: <u>Eg 104</u>								

EXPIRY DATE OF:

RTV Loctite 598: 601.2045 11/2019

MAGNOBOND 6398 PART 1: 2/01/2018

MAGNOBOND 6398 PART 2: 2/01/2018

SEALANT PR-1425: 600.1012 12/2017

6137538x1
6137073x1
6137073x1
6137371

***INDICATE ON BOX EXPIRY DATE OF RTV, MAGNOBOND PART1,
MAGNOBOND PART2 AND SEALANT PR-1425 ***

Work Order ID 118391

August-01-14 1:28:07 PM

118391

Page 3

Item ID: 647.1301 Accept ***N900040100*** Setup Start ***NS1***
 Revision ID: Stop ***NS2***
 Item Name: EC145 Cable Cutters
 Start Date: 8/01/14 Start Qty: 1.00 ***1*** Cust Item ID:
 Required Date: 8/01/14 Req'd Qty: 1.00 ***1*** Customer:
 Reference: REWORK PER ECN14-604

Approvals: Process Plan: _____ Date: _____ Tooling: _____ Date: _____ Run Start ***NR1***
 QC: _____ Date: _____ SPC (Y/N): _____ Date: _____ Stop ***NR2***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
140	QC21- Final Inspection - Work Order Release	0.00							
140									
QC	Memo	0.00							
Quality Control	*** Enter exp. date in lot maintenance for RTV loctite 598, MAGNOBOND PART1, MAGNOBOND PART2 AND SEALANT PR-1425***								

17/6/27 *[Signature]*

DAS
21
9-89 JUN 26 2017

Picklist Print

August-01-14 1:28:07 PM

Page 1

Work Order ID: 118391

118391

Parent Item: 647.1301

647 1301

Parent Item Name: EC145 Cable Cutters

Start Date: 8/01/14

Required Date: 8/01/14

Start Qty: 1.00

Required Qty: 1.00

Comments: IPP REV:A 12.10.05 NEW ISSUE DD VERF:JLM IPP REV
B: 13.07.16 AS PER REV B JLM VERIFIED BY:DD IPP REV:C
14.05.05 AS PER DWG REV C1 DD VERF:JLM

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
647.0112 *647 0112* Strut Bracket		Manufactured	No				Each	3.0000		8			
				<u>Location</u>		<u>Loc Qty</u>		<u>Loc Code</u>					
				CK106		3							
				110036		2							
				91264		1							
647.1301 *647 1301* EC145 Cable Cutters		Manufactured	No				Each	0.0000		1			

647 1301 x2

DAS
28
9-89

DAS
28
9-89

DAS
28
9-89

DAS
27
9-89

DAS
27
9-89

DAS
6
9-89

JUN 26 2017

DAS
27
9-89

DAS
6
9-89

MAR 23 2016

**

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130388x7

140968x1

1

104841

161778

601. 2045

24p. 14/2019

B137538x1

600. 1012

24p. 12/2017

B137371

ENGINEERING CHANGE NOTICE

DART AEROSPACE LTD

Date: 14.07.31	Job No.:	ADR Yes/No:	ADR Date:	ECN #: 14- 604
Product No.: 145-21, 206-21		Created By: KJ	Approved By: <i>[Signature]</i>	
Product Name: Cable Cutters		Checked By: <i>[Signature]</i>		

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
Director of Operations	Y	NF	
Production Manager / Coord.	Y	LL/MF	
Purchasing Coord.	N	MG/CL	
Production Engineering Coord.	Y	DD/JLM	<i>14.07.31</i>
Production Engineering Coord.	N	DL	
Customer Order Processing	N	RM/CC	

Distribution	Reqd	Resp	Initial / Date (YY/MM/DD)
DQA / QA Coord.	Y	PS	
QC Coordinator	Y	ED	
Customer Support	N	SW/LM	
Customer Technical Support	N	MB/HS	
Marketing Manager	N	KO	
Sales Support Manager	N	NM	

Reason for Change:
Added dimension and tolerance (646.9700), revised BOM (647.1300)

Documents Affected:
Release 646.9700 Rev C1, 647.1300 Rev C2

IF APPLICABLE: NCR: _____ PAR: _____ CAR: _____ CIR: _____ URF: _____

PAPERWORK UPDATE ☐ PARTS MUST COMPLY ☒ PREVIOUS PARTS SATISFACTORY ☐

#	Quality Assurance Actions	Reqd	Resp	Notes	Complete
1	Notify Previous Customers	N			
2	Notify Eurocopter France	N			
3	Notify Augusta Westland	N			
4	Manufacturing Licensing Agreement Update	N			

#	Engineering Actions	Reqd	Resp	Notes	Complete
5	Required Documents/Drawings/Item ID's Under Review (URF)	N			
6	Update Master Document List (MDL)	N			
7	Update Document Record (DR)	N			
8	Update Product Compatability Matrix	N			
9	Notify TC / FAA of Change (eg. ICA, 8110-3)	N			
10					

#	Document Control Actions	Reqd	Resp	Notes	Complete
11	Move / Update Electronic Files / Design Journal	N			
12	Update Product Specification Files (Bluefiles)	N			
13	Update Approved/Preliminary Dwg PDF Files	Y	KJ		
14	Update Product Development Summary (STC applications)	N			
15	Update QSI 021 (TC/FAA STC) and/or STC Approval List	N			
16	Create/Update Parts / STC Database	N			
17	Update / Verify Airworthiness Release Certificate Database	N			
18	Create / Update Change Record Form / Item Card Database	N			
19	Create / Update Packaging Process Plan (PPP)	N			
20	Red Decals required on Packaging Process Plan (PPP)?	N			
21	Update Controlled Supplier Documents (Qpulse) Database	N			
22	Update Grey Project Binder / Electronic Project Folder	N			
23	Update D-Part / M-Drawing / DSI / DEO Master Binders	N			
24	Update "Royalty Paid to" attribute (Parts sold under Dart USA STC's)	N			
25					

Description / Action:

Update BOM's and Routes per drawing revisions

add 647.0112

ECN Verified & Complete: _____ Date: _____

List Lots

August-01-14 9:01:33 AM

Page 1 of 1

Criteria : Item ID: '647.1301', '647.1302' All Locations All Warehouses All Quantity

Item ID Item Name	Warehouse ID Location ID	Lot Number	Last Trans Date	Lot Qty	Shelf Life Dt	Lot Code	Type Code	Comments
647.1301 EC145 Cable Cutters	Main Warehouse FG109	104841	7/04/14	1.0000		QC21	118391	
			Total:	1.0000				
647.1302 EC145 Cable Cutter Removable Provisions	Main Warehouse FG102	104768	7/04/14	1.0000		QC21		
	Main Warehouse FG102	91810	7/04/14	1.0000		qc21	118392	
			Total:	2.0000				

APICAL INDUSTRIES, INC.	ENGINEERING CHANGE NOTICE NO. 04485				SHEET 1 OF 1	
	DWG NO. 647.1300	REV: C	PREPARED BY J. SOTO	DATE: 04/04/2014		EFFECT ON DWG ☐ INC. ☒ UNINC.
	DWG TITLE: EC 145 CABLE CUTTERS KIT					
	APPROVED BY: ENGR <i>[Signature]</i>	MFG <i>[Signature]</i>	QC <i>[Signature]</i>	EFF. NEXT ORDER		
TRANSACTION CODES (TC): A-ADD R-REVISE C-CREATE D-DELETE	REASON: REVISED F/N 62.					ECR: D-14-02

62	R	601.3008	2	2	2	2	INSERT	NAS1834C3-300	
F/N	TC	PART NUMBER	.1306	.1304	.1303	.1301	DESCRIPTION	MATERIAL	SPECIFICATION
			QTY						

DOCUMENTS EFFECTED:	☐ MDL ☐ INSTALL INSTRUCTIONS ☐ ICA ☐ FMS ☒ BOM	CHANGE CATEGORY	DER REVIEW REQUIRED
		☐ MAJOR ☒ MINOR	☐ YES ☒ NO

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NOTES: UNLESS OTHERWISE SPECIFIED

- 1 AFTER INSTALLATION, APPLY F/N 73 A/R TO FILL GAPS AND FILLET EDGES
2. APPLY F/N 74 TO FAYING SURFACES
- 3 AT CUSTOMERS OPTION, INSTALL F/N 77 BY MATCH DRILLING ONTO F/N 1
- 4 INSTALL FOR 647.1301, 647.1302.
- 5 INSTALL FOR 647.1304, 647.1305.
- 6 APPLICABLE WHEN EUROCOPTER P/N 145-250014.11 IS INSTALLED WITH EUROCOPTER CABLE CUTTER FIXED PROVISIONS.
- 7 APPLICABLE WHEN REPLACING EUROCOPTER P/N 145-250074.11

UNINCORPORATED ECN(S)

04485, 04592

REVISIONS			
REV.	DESCRIPTION	DATE	APPROVED
LAST PROTOTYPE REVISION, PPS			NJC
INITIAL RELEASE		06/03/99	P. BRAVO
A	INCORPORATED ECN 0243, 0300, 0304B	01/25/11	P. BRAVO
B	INCORPORATED ECN 02919	07/05/13	P. BRAVO
C	INCORPORATED ECN 04059	06/13/13	P. BRAVO

13	13	13		13	26	647.1812	SHIM		
4	4	4		4	25	647.1910	CLIP		
1	1	1		1	24	647.1810	NOSE DOOR DOUBLER		
1	1	1		1	23	647.1818	NOSE DOOR SPACER		
2	2	2		2	22	647.1813	ANGLE		
1	1	1		1	21	647.1913	TEE		
1	1	1		1	20	647.1814	GUSSET, LH		
1	1	1		1	19	647.1815	GUSSET, RH		
1	1	1		1	18	647.1915	SUPPORT ANGLE		
	2	2		2	17	647.2011	LOWER STRUT		
1	1	1		1	16	647.1914	BRACKET		
1	1	1		1	15	647.1816	SUPPORT, LH		
1	1	1		1	14	647.1817	SUPPORT, RH		
1	1	1		1	13	647.1912	BRACKET, LH		
1	1	1		1	12	647.1911	BRACKET, RH		
4	4	4	4	8	11	647.0112	STRUT BRACKET		
			1	1	10	647.2110	LOWER RAIL		
			1	1	9	647.2111	UPPER RAIL		
1	1	1		1	8	647.1610	WIPER DEFLECTOR, FWD		
1	1	1		1	7	647.1601	WIPER DEFLECTOR ASSY, AFT		
			2	2	6	647.1701	SKID DEFLECTOR ASSY		
1	1	1		1	5	647.3201	GROUNDING CABLE ASSY		
1	1	1		1	4	647.2201	CROSS ASSY		
1	1	1		1	3	647.1602	DOUBLER ASSY		
	1	1		1	2	647.1402	CUTTER ASSY (LOWER)		
			1	1	1	647.1401	CUTTER ASSY (UPPER)		
X						647.1306	FIXED PROVISIONS KIT U CHANNEL		
X						647.1305	REMOVABLE PROVISIONS KIT U CHANNEL		
X						647.1304	EC145 CABLE CUTTERS KIT U CHANNEL COMPATIBLE		
X						647.1303	FIXED PROVISIONS KIT		
X						647.1302	REMOVABLE PROVISIONS KIT		
X						647.1301	EC145 CABLE CUTTERS KIT		
.1306	.1305	.1304	.1303	.1302	.1301	FIND #	PART #	DESCRIPTION	MATL SPEC.

BOM Table (Restructured)

QTY	PARTS LIST	
NEXT ASSY (S)	ORIGINAL DATE DRAWN BY R. ROSANO DRAWING APPROVAL P. BRAVO CONTRACT NO.	DATE CHECKED C. REYER DATE D. BAILEY
	UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES TOLERANCES 2 PLACE DECIMALS ±.03 3 PLACE DECIMALS ±.010 ANGLES ±.5°	
	REV. CAGE CODE	ENG. NO. 647.1300
	SCALE NONE	SHEET 1 OF 9

APICAL INDUSTRIES

2608 TEMPLE HEIGHTS DR.
OCEANSIDE, CA. 92056-3512 (760) 724-5300

EC145 CABLE CUTTERS KIT

Work Order ID 118391

August-01-14 1:28:07 PM

118391

Page 1

Item ID: 647.1301

Accept

N900040100

Setup Start ***NS1***

Revision ID:

Stop ***NS2***

Item Name: EC145 Cable Cutters

Start Date: 8/01/14 Start Qty: 1.00 ***1***

Required Date: 8/01/14 Req'd Qty: 1.00 ***1***

Cust Item ID:

Customer:

Reference: REWORK PER ECN14-604

Approvals: Process Plan: *[Signature]*

Date:

Tooling:

Date:

Run Start ***NR1***

QC:

Date:

SPC (Y/N):

Date:

Stop ***NR2***

Sequence ID/
Work Center ID

Operation
Description

Set Up/
Run Hours

Tool ID

Tool #

Plan
Code

Accept
Qty

Reject
Qty

Reject
Number

Insp.
Stamp

Draw Nbr

Revision Nbr

647.1300

C (ECN2)

hAbe

100

Document Control

0.00

100

DOCUMENT CONTROL

DC

Memo

0.00

Doc.Control -USB or Paperwork

Photocopy bluefile & type labels per PPP 647.1301

MCS

MAR 23 2016

110

Pick Kit

0.00

110

Packaging

Memo

0.00

PULL FROM STOCK:
1 X 647.1301 B104841

REWORK PER ECN14-604

ADD TO EACH KIT:

8 X 647.0112 B *140268*